#### IN THE CLAIMS

Please amend claims 19, 24, 41, 46, 65 and 70 as indicated below.

The listing of claims will replace all prior versions, and listings, of claims in the application.

#### **Listing of Claims:**

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Claim 1 (previously presented) A method for allowing a server node in a virtual private network to have a single tunnel definition and a single security policy for a plurality of tunnels associated with a group name comprising the steps of:

configuring a group database in said server node, wherein said group database in said server node comprises said group name and a list of members associated with said group name;

configuring a rules database in said server node, wherein said rules database associates said group name with a particular security policy, wherein said server node has a single security policy for each of the plurality of tunnels associated with said group name;

establishing a tunnel having a tunnel definition between a client node having a member name and said server node by negotiating a common security policy; and

associating said tunnel with a group in said group database based on said member name such that only one copy of said tunnel definition and associated security policy is maintained on said server node regardless of the number of client nodes to server node tunnels associated with said group.

Claim 2 (original) The method as recited in claim 1 further comprising the step of:

configuring a tunnel definition database in said server node, wherein a remote ID in said tunnel definition is defined as said group name, wherein said server node has a single tunnel definition for each of the plurality of tunnels associated with said group name.

Claims 3-4 (canceled)

- 1 Claim 5 (original) The method as recited in claim 1, wherein said list of members
- associated with said group name comprise an ID type and an ID of each member
- 3 associated with said group name.
- Claim 6 (original) The method as recited in claim 5, wherein said ID type is an
- 2 Internet Key Exchange (IKE) defined ID type, wherein said list of members is a
- 3 non-contiguous list of IKE defined ID types.
- Claim 7 (original) The method as recited in claim 5, wherein said ID is a login ID.
- Claim 8 (original) The method as recited in claim 5, wherein said ID is a specified
- 2 name.
- Claim 9 (previously presented) The method as recited in claim 2, wherein
- 2 configuring said tunnel definition database in said server node comprises establishing
- 3 said server node and said client node as the two end points of said tunnel.
- Claim 10 (original) The method as recited in claim 9, wherein said tunnel definition
- database in said server node is configured by a user entering a local ID, a local ID
- 3 type, said remote ID and a remote ID type through a GUI.
- Claim 11 (original) The method as recited in claim 9, wherein said tunnel definition
- database in said server node is configured by a user entering a local ID, a local ID
- 3 type, said remote ID and a remote ID type through a command line interface.
- 1 Claim 12 (original) The method as recited in claim 1, wherein said group database in
- 2 said server node comprises said group name and an ID type of each member of said
- group name and an ID of each member of said group name.
- 1 Claim 13 (original) The method as recited in claim 12, wherein configuring said
- 2 group database in said server node is accomplished by entering said group name, said
- 3 ID type of each member of said group name and said ID of each member of said
- 4 group name through a GUI.

1	Claim 14 (original) The method as recited in claim 12, wherein configuring said
2	group database in said server node is accomplished by entering said group name, said
3	ID type of each member of said group name and said ID of each member of said
4	group name through a command line interface.
1	Claim 15 (original) The method as recited in claim 12, wherein configuring said
2	group database in said server node is accomplished by entering said group name, said
3	ID type of each member of said group name and said ID of each member of said
4	group name through configuration files.
1	Claim 16 (original) The method as recited in claim 1, wherein said rules database in
2	said server node comprises said group name, a group name ID type and a security
3	policy pointer.
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1	Claim 17 (original) The method as recited in claim 16, wherein configuring said
2	rules database in said server node is accomplished by entering said group name, said
3	group name ID type and said security policy pointer through a GUI.
1	Claim 18 (original) The method as recited in claim 16, wherein configuring said
2	rules database in said server node is accomplished by entering said group name, said
3	group name ID type and said security policy pointer through a command line
	interface.
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1	Claim 19 (currently amended) The method as recited in claim 1 further comprising
2	the step of: A method for allowing a server node in a virtual private network to have
3	a single tunnel definition and a single security policy for a plurality of tunnels
4	associated with a group name comprising the steps of:
5	configuring a group database in said server node, wherein said group database
6	in said server node comprises said group name and a list of members associated with
7	said group name;
8	configuring a rules database in said server node, wherein said rules database
9	associates said group name with a particular security policy, wherein said server node
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10	has a single security policy for each of the plurality of tunnels associated with said
11	group name;
12	establishing a tunnel having a tunnel definition between a client node having a
13	member name and said server node by negotiating a common security policy;
14	associating said tunnel with a group in said group database based on said
15	member name such that only one copy of said tunnel definition and associated
16	security policy is maintained on said server node regardless of the number of client
17	nodes to server node tunnels associated with said group; and
18	activating said tunnel, wherein activating said tunnel comprises the steps of:
19	sending a security policy stored in a policy database of said client node
20	by said client node to said server node;
21	sending a security policy stored in a policy database of said server
22	node by said server node to said client node if said security policy stored in said
23	policy database of said server node matches said security policy stored in said policy
24	database of said client node;
25	sending a first nonce by said client node to said server node;
26	sending a second nonce by said server node to said client node;
27	sending a first ID by said client node to said server node; and
28	sending a second ID by said server node to said client node.
1	Claim 20 (original) The method as recited in claim 19, wherein said first and second
2	nonce are used to generate key material for said server and client node, respectively.
. 1	Claim 21 (original) The method as recited in claim 19, wherein said policy database
2	in said client and server node are configured by entering said security policy through
3	a GUI at said client and server node.
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1	Claim 22 (original) The method as recited in claim 19, wherein said policy database
2	in said client and server node are configured by entering said security policy through
3	a command line interface at said client and server node.
1	Claim 23 (original) The method as recited in claim 19, wherein said first ID is an ID
2	of said particular member of said group name.

1	Claim 24 (currently amended) The method as recited in claim 1 further comprising
2	the step of: A method for allowing a server node in a virtual private network to have
3	a single tunnel definition and a single security policy for a plurality of tunnels
4	associated with a group name comprising the steps of:
5	configuring a group database in said server node, wherein said group database
6	in said server node comprises said group name and a list of members associated with
7	said group name;
8	configuring a rules database in said server node, wherein said rules database
9	associates said group name with a particular security policy, wherein said server node
10	has a single security policy for each of the plurality of tunnels associated with said
11	group name;
12	establishing a tunnel having a tunnel definition between a client node having a
13	member name and said server node by negotiating a common security policy;
14	associating said tunnel with a group in said group database based on said
15	member name such that only one copy of said tunnel definition and associated
16	security policy is maintained on said server node regardless of the number of client
17	nodes to server node tunnels associated with said group; and
18	activating said tunnel, wherein activating tunnel comprises the steps of:
19	sending a security policy stored in a policy database of said client node
20	by said client node to said server node;
:.21	sending a security policy stored in a policy database of said server
22	node by said server node to said client node if said security policy stored in said
23	policy database of said server node agrees on the same set of protection suites at any
24	point in time with said security policy stored in said policy database of said client
25	node;
-26	sending a first nonce by said client node to said server node;
27	sending a second nonce by said server node to said client node;
28	sending a first ID by said client node to said server node; and
29	sending a second ID by said server node to said client node.

1	Claim 25 (original) A network system comprising:
2	a plurality of tunnels associated with a group name, wherein each of said
3	plurality of tunnels associated with said group name comprises a plurality of nodes,
4	wherein each of said plurality of nodes comprises a communication adapter to
5	interconnect with said virtual private network, wherein one of said plurality of nodes
6	is a server node, wherein one of said plurality of nodes is a client node, wherein said
7	server node comprises:
8 -	a group database, wherein said group database comprises said group
9	name and a list of members associated with said group name; and
10	a rules database, wherein said rules database associates said group
11	name with a particular security policy, wherein said server node has a single security
12	policy for each of the plurality of tunnels associated with said group name.
1	Claim 26 (original) The network system as recited in claim 25, wherein said server
2	node further comprises:
3	a tunnel definition database, wherein a remote ID in said tunnel definition is
4	defined as said group name, wherein said server node has a single tunnel definition
5	for each of the plurality of tunnels associated with said group name.
1	Claim 27 (original) The network system as recited in claim 26, wherein a particular
2	tunnel of said plurality of tunnels associated with said group name is activated,
3	wherein said particular tunnel is associated with a particular member of said group
4	name.
1	Claim 28 (original) The network system as recited in claim 25, wherein said list of
2	members associated with said group name comprise an ID type and an ID of each
3	member associated with said group name.
1	Claim 29 (original) The network system as recited in claim 28, wherein said ID type
2	is an Internet Key Exchange (IKE) defined ID type, wherein said list of members is a
2	non contiguous list of IVE defined ID types

1	Claim 30 (original) The network system as recited in claim 28, wherein said in is a
2	login ID.
1	Claim 31 (original) The network system as recited in claim 28, wherein said ID is a
2	specified name.
1	Claim 32 (original) The network system as recited in claim 26, wherein said tunnel
2	definition database in said server node is configured by a user entering a local ID, a
3	local ID type, said remote ID and a remote ID type through a GUI.
1	Claim 33 (original) The network system as recited in claim 26, wherein said tunnel
2	definition database in said server node is configured by a user entering a local ID, a
.3	local ID type, said remote ID and a remote ID type through a command line interface.
1	Claim 34 (original) The network system as recited in claim 25, wherein said group
2	database in said server node comprises said group name and an ID type of each
3	member of said group name and an ID of each member of said group name.
1	Claim 35 (original) The network system as recited in claim 34, wherein said group
2	database in said server node is configured by a user entering said group name, said ID
3	type of each member of said group name and said ID of each member of said group
4	name through a GUI.
1	Claim 36 (original) The network system as recited in claim 34, wherein said group
2	database in said server node is configured by a user entering said group name, said ID
3	type of each member of said group name and said ID of each member of said group
4	name through a command line interface.
1	Claim 37 (original) The network system as recited in claim 34, wherein said group
2	database in said server node is configured by a user entering said group name, said ID
3	type of each member of said group name and said ID of each member of said group
4	name through configuration files.

1	Claim 38 (original) The network system as recited in claim 25, wherein said rules
2	database in said server node comprises said group name, a group name ID type and a
3	security policy pointer.
1	Claim 39 (original) The network system as recited in claim 38, wherein said rules
2	database is configured by a user entering said group name, said group name ID type
3	and said security policy pointer through a GUI.
1	Claim 40 (original) The network system as recited in claim 39, wherein said rules
2	database is configured by a user entering said group name, said group name ID type
3	and said security policy pointer through a command line interface.
1	Claim 41 (currently amended) The network system as recited in claim 27, A network
2	system comprising:
3 3	a plurality of tunnels associated with a group name, wherein each of said
4	plurality of tunnels associated with said group name comprises a plurality of nodes,
5	wherein each of said plurality of nodes comprises a communication adapter to
6	interconnect with said virtual private network, wherein one of said plurality of nodes
7	is a server node, wherein one of said plurality of nodes is a client node, wherein said
,8	server node comprises:
9	a group database, wherein said group database comprises said group
10	name and a list of members associated with said group name; and
11	a rules database, wherein said rules database associates said group
12	name with a particular security policy, wherein said server node has a single security
13	policy for each of the plurality of tunnels associated with said group name;
14	wherein said server node further comprises:
15	a tunnel definition database, wherein a remote ID in said tunnel
16	definition is defined as said group name, wherein said server node has a single tunnel
17	definition for each of the plurality of tunnels associated with said group name;
18	wherein a particular tunnel of said plurality of tunnels associated with said
19	group name is activated, wherein said particular tunnel is associated with a particular
20	member of said group name;

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21	wherein activating said particular tunnel comprises the steps of:
22	sending a security policy stored in a policy database of said client node
23	by said client node to said server node;
24	sending a security policy stored in a policy database of said server
25	node by said server node to said client node if said security policy stored in said
26	policy database of said server node matches said security policy stored in said policy
27	database of said client node;
28	sending a first nonce by said client node to said server node;
29	sending a second nonce by said server node to said client node;
30	sending a first ID by said client node to said server node; and
31	sending a second ID by said server node to said client node.
1	Claim 42 (original) The network system as recited in claim 41, wherein said first and
2	second nonce are used to generate key material for said server and client node,
3	respectively.
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1	Claim 43 (original) The network system as recited in claim 41, wherein said policy
2	database in said client and server node are configured by entering said security policy
3	through a GUI at said client and server node.
1	Claim 44 (original) The network system as recited in claim 41, wherein said policy
2	database in said client and server node are configured by entering said security policy
3	through a command line interface at said client and server node.
	Claim 45 (original) The network system as recited in claim 41, wherein said first ID
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2	is an ID of said particular member of said group name.
1	Claim 46 (currently amended) The network system as recited in claim 27, A network
2	system comprising:
3	a plurality of tunnels associated with a group name, wherein each of said
4	plurality of tunnels associated with said group name comprises a plurality of nodes,
5	wherein each of said plurality of nodes comprises a communication adapter to
6	interconnect with said virtual private network, wherein one of said plurality of nodes

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7	is a server node, wherein one of said plurality of nodes is a chefit flode, wherein said
8	server node comprises:
9	a group database, wherein said group database comprises said group
10	name and a list of members associated with said group name; and
11	a rules database, wherein said rules database associates said group
12	name with a particular security policy, wherein said server node has a single security
13	policy for each of the plurality of tunnels associated with said group name;
14	wherein said server node further comprises:
15	a tunnel definition database, wherein a remote ID in said tunnel
16	definition is defined as said group name, wherein said server node has a single tunnel
17	definition for each of the plurality of tunnels associated with said group name;
18	wherein a particular tunnel of said plurality of tunnels associated with said
19	group name is activated, wherein said particular tunnel is associated with a particular
20	member of said group name;
21	wherein activating said particular tunnel comprises the steps of:
22	sending a security policy stored in a policy database of said client node
23	by said client node to said server node;
24	sending a security policy stored in a policy database of said server
25	node by said server node to said client node if said security policy stored in said
26	policy database of said server node agrees on the same set of protection suites at any
27	point in time with said security policy stored in said policy database of said client
28	node;
29	sending a first nonce by said client node to said server node;
30	sending a second nonce by said server node to said client node;
31	sending a first ID by said client node to said server node; and
32	sending a second ID by said server node to said client node.
1	Claim 47 (previously presented) A computer program product having a computer
2	readable medium having computer program logic recorded thereon for allowing a
3	server node in a virtual private network to have a single tunnel definition and a single
4	security policy for a plurality of tunnels associated with a group name, comprising:
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5	programming operable for configuring a group database in said server node,
6	wherein said group database in said server node comprises said group name and a list
7	of members associated with said group name;
8	programming operable for configuring a rules database in said server node,
9	wherein said rules database associates said group name with a particular security
10	policy, wherein said server node has a single security policy for each of the plurality
11	of tunnels associated with said group name;
12	programming operable for establishing a tunnel having a tunnel definition
13	between a client node having a member name and said server node by negotiating a
14	common security policy; and
15	programming operable for associating said tunnel with a group in said group
16	database based on said member name such that only one copy of said tunnel
17	definition and associated security policy is maintained on said server node regardless
18	of the number of client nodes to server node tunnels associated with said group.
1	Claim 48 (original) The computer program product as recited in claim 47 further
2	comprises:
3	programming operable for configuring a tunnel definition database in said
4	server node, wherein a remote ID in said tunnel definition is defined as said group
5	name, wherein said server node has a single tunnel definition for each of the plurality
6	of tunnels associated with said group name.
	Claims 49-50 (canceled)
1	Claim 51 (original) The computer program product as recited in claim 47, wherein
2	said list of members associated with said group name comprise an ID type and an ID
3	of each member associated with said group name.
1	Claim 52 (original) The computer program product as recited in claim 51, wherein

said ID type is an Internet Key Exchange (IKE) defined ID type, wherein said list of

members is a non-contiguous list of IKE defined ID types.

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2	said ID is a login ID.
1	Claim 54 (original) The computer program product as recited in claim 51, wherein
2	said ID is a specified name.
1	Claim 55 (previously presented) The computer program product as recited in claim
2	48, wherein configuring said tunnel definition database in said server node comprises:
3	programming operable for establishing said server node and said client node
4	as the two end points of said tunnel.
1	Claim 56 (original) The computer program product as recited in claim 55, wherein
2	said tunnel definition database in said server node is configured by a user entering a
3	local ID, a local ID type, said remote ID and a remote ID type through a GUI.
1	Claim 57 (original) The computer program product as recited in claim 55, wherein
2	said tunnel definition database in said server node is configured by a user entering a
3	local ID, a local ID type, said remote ID and a remote ID type through a command
4	line interface.
1	Claim 58 (original) The computer program product as recited in claim 47, wherein
2	said group database in said server node comprises said group name and an ID type of
3	each member of said group name and an ID of each member of said group name.
1	Claim 59 (original) The computer program product as recited in claim 58, wherein
2	configuring said group database in said server node is accomplished by entering said
3	group name, said ID type of each member of said group name and said ID of each
4	member of said group name through a GUI.
1	Claim 60 (original) The computer program product as recited in claim 58, wherein
2	configuring said group database in said server node is accomplished by entering said
3	group name, said ID type of each member of said group name and said ID of each
4	member of said group name through a command line interface.

Claim 53 (original) The computer program product as recited in claim 51, wherein

1	Claim 61 (original) The computer program product as recited in claim 58, wherein
2	configuring said group database in said server node is accomplished by entering said
3	group name, said ID type of each member of said group name and said ID of each
4	member of said group name through configuration files.
1	Claim 62 (original) The computer program product as recited in claim 47, wherein
2	said rules database in said server node comprises said group name, a group name ID
3	type and a security policy pointer.
1	Claim 63 (original) The computer program product as recited in claim 62, wherein
2	configuring said rules database in said server node is accomplished by entering said
3	group name, said group name ID type and said security policy pointer through a GUI.
1	Claim 64 (original) The computer program product as recited in claim 62, wherein
2	configuring said rules database in said server node is accomplished by entering said
3	group name, said group name ID type and said security policy pointer through a
4	command line interface.
1	Claim 65 (currently amended) The computer program product as recited in claim 47
2	further comprising: A computer program product having a computer readable
3	medium having computer program logic recorded thereon for allowing a server node
4	in a virtual private network to have a single tunnel definition and a single security
5	policy for a plurality of tunnels associated with a group name, comprising:
6	programming operable for configuring a group database in said server node,
7	wherein said group database in said server node comprises said group name and a list
8	of members associated with said group name;
9	programming operable for configuring a rules database in said server node,
10	wherein said rules database associates said group name with a particular security
11	policy, wherein said server node has a single security policy for each of the plurality
12	of tunnels associated with said group name;

13	programming operable for establishing a tunnel having a tunnel definition
14	between a client node having a member name and said server node by negotiating a
15	common security policy;
16	programming operable for associating said tunnel with a group in said group
17	database based on said member name such that only one copy of said tunnel
18	definition and associated security policy is maintained on said server node regardless
19	of the number of client nodes to server node tunnels associated with said group; and
20	programming operable for activating said tunnel, wherein said programming
21	operable for activating said tunnel comprises:
22	programming operable for sending a security policy stored in a policy
23	database of said client node by said client node to said server node;
24	programming operable for sending a security policy stored in a policy
25	database of said server node by said server node to said client node if said security
26	policy stored in said policy database of said server node matches said security policy
27	stored in said policy database of said client node;
28	programming operable for sending a first nonce by said client node to
29	said server node;
30	programming operable for sending a second nonce by said server node
31	to said client node;
32	programming operable for sending a first ID by said client node to said
33	server node; and
34	programming operable for sending a second ID by said server node to
35	said client node.
1	Claim 66 (original) The computer program product as recited in claim 65, wherein
2	said first and second nonce are used to generate key material for said server and client
3	node, respectively.
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1	Claim 67 (original) The computer program product as recited in claim 65, wherein
2	said policy database in said client and server node are configured by entering said
3	security policy through a GUI at said client and server node.

	wherein
1	Claim 68 (original) The computer program product as recited in claim 65, wherein
2	said policy database in said client and server node are configured by entering said
3	security policy through a command line interface at said client and server node.
1	Claim 69 (original) The computer program product as recited in claim 65, wherein
2	said first ID is an ID of said particular member of said group name.
1	Claim 70 (currently amended) The computer program product as recited in claim 47
1	further comprising: A computer program product having a computer readable
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3	medium having computer program logic recorded thereon for allowing a server node
4	in a virtual private network to have a single tunnel definition and a single security
5	policy for a plurality of tunnels associated with a group name, comprising:
6	programming operable for configuring a group database in said server node,
7	wherein said group database in said server node comprises said group name and a list
8	of members associated with said group name;
9	programming operable for configuring a rules database in said server node,
10	wherein said rules database associates said group name with a particular security
11	policy, wherein said server node has a single security policy for each of the plurality
12	of tunnels associated with said group name;
13	programming operable for establishing a tunnel having a tunnel definition
14	between a client node having a member name and said server node by negotiating a
15	common security policy;
16	programming operable for associating said tunnel with a group in said group
17	database based on said member name such that only one copy of said tunnel
18	definition and associated security policy is maintained on said server node regardless
19	of the number of client nodes to server node tunnels associated with said group; and
20	programming operable for activating said tunnel, wherein said programming
21	operable for activating said tunnel comprises:
22	programming operable for sending a security policy stored in a policy
23	database of said client node by said client node to said server node;

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24	programming operable for sending a security policy stored in a policy
25	database of said server node by said server node to said client node if said security
26	policy stored in said policy database of said server node agrees on the same set of
27	protection suites at any point in time with said security policy stored in said policy
28	database of said client node;
29	programming operable for sending a first nonce by said client node to
30	said server node;
31	programming operable for sending a second nonce by said server node
32	to said client node;
33	programming operable for sending a first ID by said client node to said
34	server node; and
35	programming operable for sending a second ID by said server node to
36	said client node.